



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Arvind SINHA et al.

Title: A SINGLE-STEP SIMPLE AND ECONOMICAL PROCESS
FOR THE PREPARATION OF NANOSIZED ACICULAR
MAGNETIC IRON OXIDE PARTICLES OF MAGHEMITE
PHASE

Appl. No.: 10/694,394

Filing Date: 10/28/2003

Examiner: Unassigned

Art Unit: 1762

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document, except as noted below, is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The USPTO has waived the requirement under 37 CFR 1.98(a)(2)(i) to submit copies of U.S. patents and U.S. patent application publications when citing and submitting an Information Disclosure Statements in a patent application filed after June 30, 2003 and in an international application that has entered the national stage under 37 USC §371 after June 30, 2003. Accordingly, copies of these types of documents are not being supplied in connection with this application. Reference is being made to Pre-OG Notice from Office of Patent Legal Administration dated July 25, 2003, *Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003.*

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

RELEVANCE OF EACH DOCUMENT

The relevance of the foreign-language document is described in the present specification. An English translation of the foreign-language document is not readily available. However, the absence of such translation does not relieve the PTO from its duty to consider the submitted foreign language document (37 CFR §1.98 and MPEP §609).

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

Date: May 19, 2004

By 

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Substitute for Form 149B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Date Submitted: May 19, 2004

(use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number	10/694,394
Filing Date	10/28/2003
First Named Inventor	Arvind SINHA
Group Art Unit	1762
Examiner Name	Unassigned
Attorney Docket Number	056859-0190

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A1	5,427,767		Kresse et al.	06-27-1995	
	A2	6,123,920		Gunther et al.	09-26-2000	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁸
		Office ³	Number ⁴	Kind Code ⁵ (if known)				

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁸
	A3	DR. R. VON ROBL, "Über ferromagnetische Eisenoxyde", <i>Angew. Chem.</i> , Nr. 12, January 7, 1958, pp. 367-371.	
	A4	R. M. TAYLOR et al., "Maghemite in Soils and Its Origin", <i>Clay Minerals</i> , 1974, pp. 299-310.	
	A5	GAUTAM R. DESIRAJU et al., "A Mild Transformation of γ -FeOOH to γ -Fe ₂ O ₃ Using Organic Reagents", <i>Mat. Res. Bull.</i> , Vol. 17, 1982, pp. 443-449.	
	A6	E. ENNAS et al., "Characterization of nanocrystalline γ -Fe ₂ O ₃ prepared by wet chemical method", <i>J. Mater. Res.</i> , Vol. 14, No. 4, April 1999, pp. 1570-1575.	
	A7	K. E. GONSALVES et al., "Synthesis of acicular iron oxide nanoparticles and their dispersion in a polymer matrix", <i>Journal of Materials Science</i> , 2001, pp. 2461-2471.	
	A8	C.V. GOPAL, et al., "Preparation of γ -Fe ₂ O ₃ by the hydrazine method Application as an alcohol sensor", <i>International Journal of Inorganic Materials</i> , 2000, pp. 301-307	

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁸ Applicant is to place a check mark here if English language Translation is attached.

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